



SFA Schools Portal

Low Level Design

Version 1.0

September 30, 2000

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1.0 Overview

This document, *SFA Schools Portal Low Level Design*, specifies the detailed file structure and content layout of the SFA Schools Portal version 1.0.

The *SFA Schools Portal Low Level Design* is a living document. It serves several core purposes in the delivery of the portal:

- Identify the file structure and physical layout of the Portal code
- Provide an individual description of every element of the Portal code for reference
- Direct integrators and maintainers to the appropriate locations in the code for enhancements

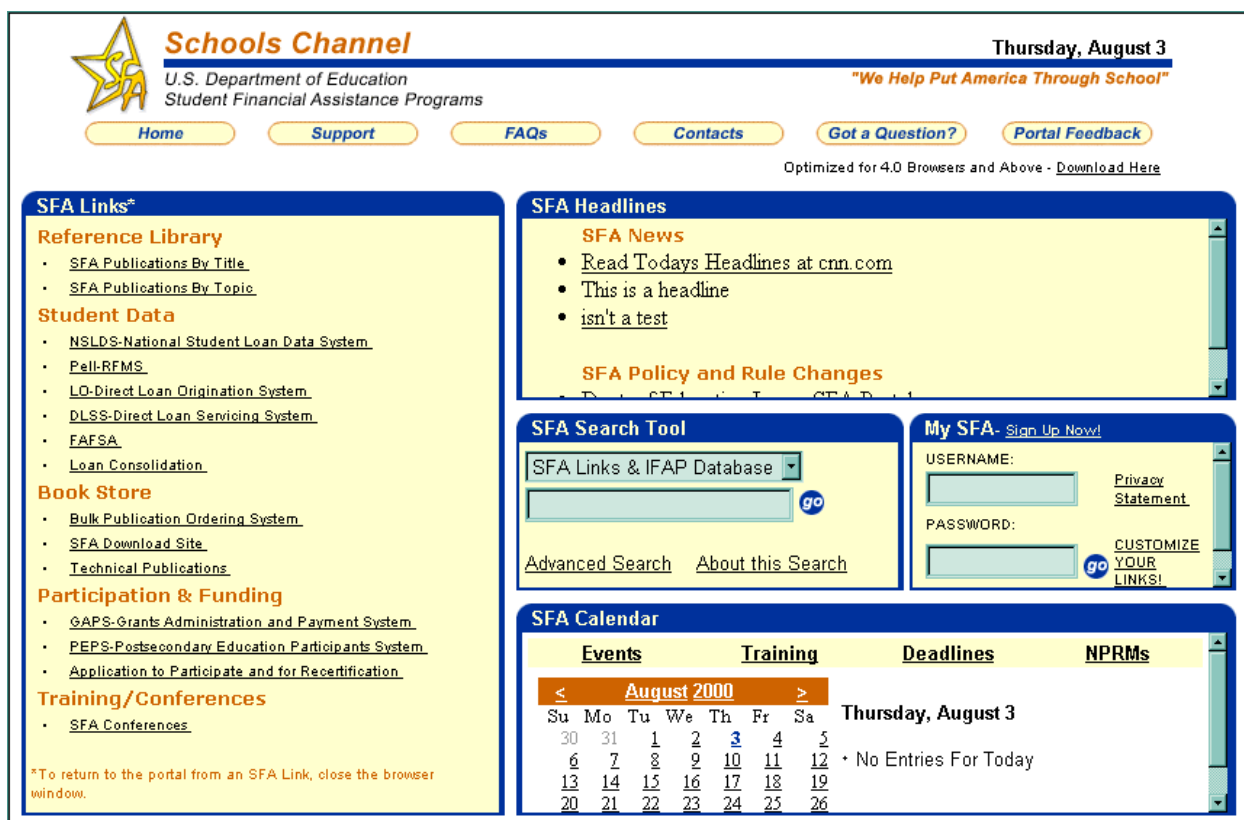
As delivered today, the *SFA Schools Portal Low Level Design* document takes the currently available knowledge about the layout of the SFA Portal application. It will continue to evolve with further refinements of business, functional and technical requirements and user interface design, and as testing and enhancement progress.

2.0 Physical Structure

2.1 Look And Feel

This section describes the physical layout of the pages that make up SFA Schools Portal. An understanding of the philosophy used to construct the pages will aid in administration and maintenance of the HTML.

The general look and feel of the SFA Schools Portal is shown below:

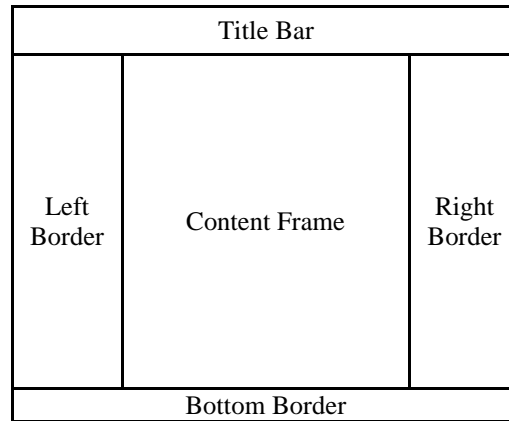


The primary colors used in the SFA Schools Portal color scheme are:

Color	Hex Code	Used For
Dark Blue	#003399	Titlebars, window borders.
Light Yellow	#FFFFCC	Text in titles, background in windows.
Orange	#CC6600	Calendar headings, category titles

2.2 Implementing the “Windows”

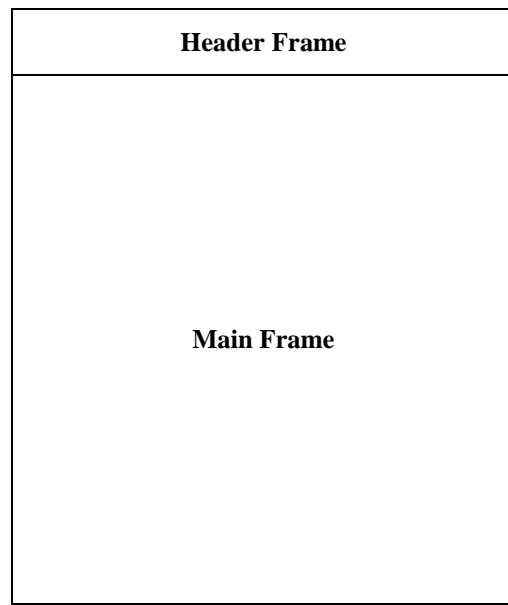
The windowed implementation gives the SFA Schools Portal its innovative and easy-to-understand layout. Implementing this layout using HTML is fairly complicated. The “windows” on the Home and Personal sites are created by doing a five-frame “Border Layout”, as below:



This keeps the scrollbar for the content “inside” the right border and below the titlebar, which can be seen in the SFA Calendar and My SFA areas in the previous section. While this provides a very clean look, it makes the code structure somewhat more complex, since there are many nested framesets on the Home and Personal Sites.

2.3 Home Site Structure

The Home Site is divided into two frames as shown in the diagram below. This frameset is defined in `/build/htdocs/home/index.htm`. This permits the **Header Frame** to remain constant, while the contents of the **Main Frame** change. This saves considerable loading time since the **Header Frame** is graphics intensive.

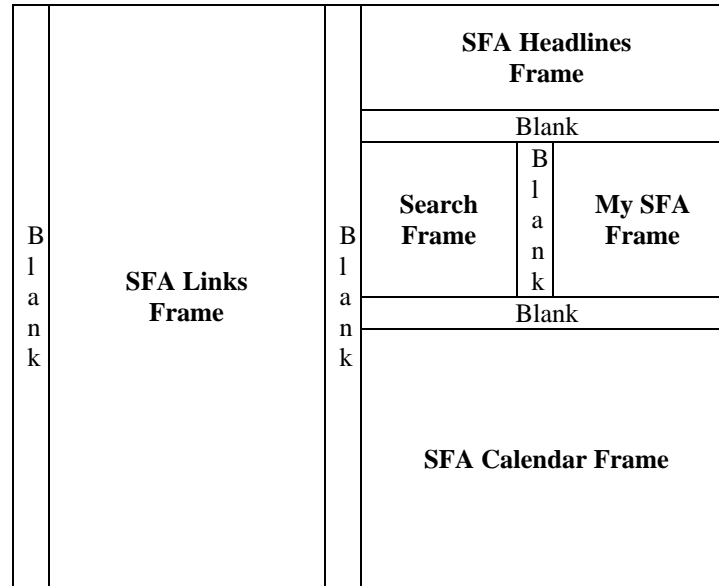


- The **Header Frame** displays the file `/build/htdocs/home/header.htm`. This contains the SFA Logo, the button bar, and the Get Browser link.

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- The **Main Frame** initially displays the file `/build/htdocs/home/master_frameset.htm`. However, when the user clicks on buttons in the **Header Frame** toolbar, the contents of the **Main Frame** change to point to other HTML files.

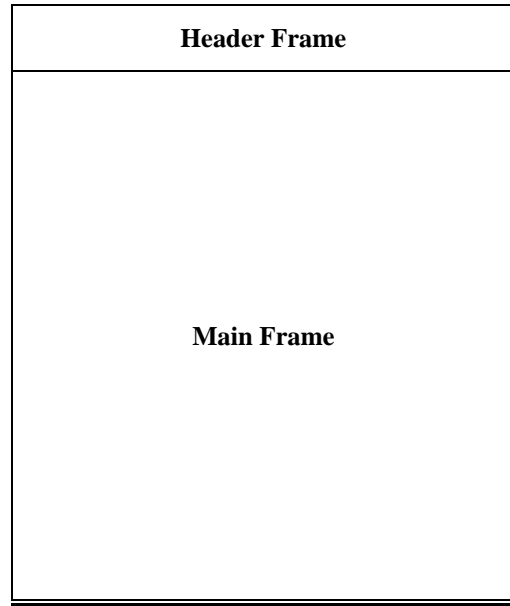
The initial contents of the **Main Frame** (the Home Site) are shown below. This frameset is defined in `/build/htdocs/home/master_frameset.htm`.



- All **Blank** frames displays the file `/build/htdocs/home/blank.htm`, which contains a small, transparent spacer graphic
- The **SFA Links Frame** displays the file `/build/htdocs/home/sfalinks_master.htm`. This contains the SFA Links organized by category, along with its titlebar and borders. The content for this frame is provided by `/build/htdocs/home/sfalinks.htm`.
- The **SFA Headlines Frame** displays the file `/build/htdocs/home/headlines_master.htm`. This shows the headlines after extracting them from the database, along with a titlebar and borders. The content for this frame is provided by `/build/htdocs/headlines/headlines.jsp`.
- The **SFA Search Frame** displays the file `/build/htdocs/home/search_master.htm`. This contains the SFA Integrated Search Interface, along with its titlebar and borders. The content for this frame is provided by `/build/htdocs/search/search1.htm`.
- The **My SFA Frame** displays the file `/build/htdocs/home/mysfa_master.htm`. This contains the fields needed for the user to sign on to the Personal Site and links to help and account creation pages, along with the necessary titlebar and borders. The content for this frame is provided by `/build/htdocs/home/mysfa.htm`.
- The **SFA Calendar Frame** displays the file `/build/htdocs/home/calendar_master.htm`. This contains the SFA Calendar, along with its titlebar and borders. The content for this frame is provided by `/build/htdocs/calendar/calendar.jsp`.

2.4 Personal Site Structure

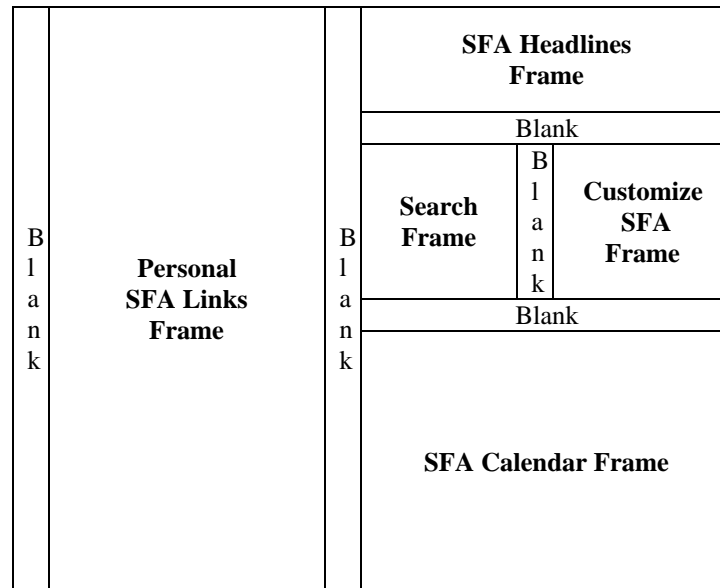
The Personal Site is structured almost exactly like the Home Site. The Personal Site is divided into two frames as shown in the diagram below. This frameset is defined in `/build/htdocs/personal/index.htm`. This permits the **Header Frame** to remain constant, while the contents of the **Main Frame** change. This saves considerable loading time since the **Header Frame** is graphics intensive.



- The **Header Frame** displays the file `/build/htdocs/personal/personal_header.htm`. This contains the SFA Logo, the button bar, and the Get Browser link.
- The **Main Frame** initially displays the file `/build/htdocs/personal/master_frameset.htm`. However, when the user clicks on buttons in the **Header Frame** toolbar, the contents of the **Main Frame** change to point to other HTML files.

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The initial contents of the **Main Frame** (the Personal Site) are shown below. This frameset is defined in `/build/htdocs/personal/master_frameset.htm`.



- All **Blank** frames displays the file `/build/htdocs/personal/blank.htm`, which contains a small, transparent spacer graphic
- The **Personal SFA Links Frame** displays the file `/build/htdocs/personal/personal_sfalinks_master.htm`. This contains the SFA Links selected by the user organized by category, along with its titlebar and borders. The user's Custom Bookmarks are also displayed here. The content for this frame is provided by `/build/htdocs/personal/personal_sfalinks.jsp`.
- The **SFA Headlines Frame** displays the file `/build/htdocs/personal/personal_headlines_master.htm`. This shows the headlines after extracting them from the database, along with a titlebar and borders. The content for this frame is provided by `/build/htdocs/headlines/headlines.jsp`.
- The **SFA Search Frame** displays the file `/build/htdocs/personal/personal_search_master.htm`. This contains the SFA Integrated Search Interface, along with its titlebar and borders. The content for this frame is provided by `/build/htdocs/search/search1.htm`.
- The **Customize SFA Frame** displays the file `/build/htdocs/personal/personal_customize_master.htm`. This contains the fields needed for the user to customize their Personal Site and to change their password, along with the necessary titlebar and borders. The content for this frame is provided by `/build/htdocs/personal/personal_customize.htm`.
- The **SFA Calendar Frame** displays the file `/build/htdocs/personal/personal_calendar_master.htm`. This contains the SFA Calendar, along with its titlebar and borders. The content for this frame is provided by `/build/htdocs/calendar/calendar.jsp`.

3.0 Code Reference

This section describes the individual files that make up the SFA Schools Portal. Files are organized by directory. The **build** directory is used as the root reference point for all of these.

3.1 Directory: /build

The **build** directory is the main directory of the SFA Schools Portal. It contains the following files:

File	Description
Makefile	Executing <code>/usr/ccs/bin/make</code> on this file will build all of the code in the SFA Schools Portal from this directory onward.
Makefile.include	This file contains all the directory references and environment variables needed by the makefiles within the structure. All makefiles reference this.

3.2 Directory: /build/classes

The **classes** directory contains the compiled source code of the SFA Schools Portal. It mirrors the layout of the `/build/src` directory. For every `.java` file in the `/build/src` hierarchy, there is a corresponding `.class` file in the **classes** directory.

See the section on the `/build/src` directory for information on the contents of the java source code that generates the `.class` files.

3.3 Directory: /build/htdocs

The **htdocs** directory is the main web documents directory of the SFA Schools Portal. It is the root of all the directories that contain HTML and JSP files. The **htdocs** directory contains the following files:

File	Description
blank.htm	This is an empty HTML file, used as a spacer in the framesets. Any time you see an empty space between frames, it usually contains this file.
construction.htm	The “This Page Under Construction” page. When building the SFA Schools Portal, it was referenced whenever a page did not yet exist. It is not referenced anywhere now but is kept around for future needs.
get_browsers.htm	This is the page that contains links to get the latest versions of Netscape and Internet Explorer. It is referenced from both the Home Site and the Personal Site headers.

3.3.1 Directory: /build/htdocs/admin

The **admin** directory contains the web pages that make up the administrative interface to the SFA Schools Portal. Using the pages in this directory, an admin user can maintain the headlines, calendar entries, and NPRMs that provide content for the users of the Portal. These files are almost exclusively JSPs, since the security model used to validate access is server-side. The **admin** directory contains the following files:

File	Description
admin_calendar_access.jsp	This page gives the administrator the choice to add a new calendar entry or to view a filtered list of calendar entries based on a date range. It is accessed from the main admin page.
admin_calendar_maint.jsp	This page lists the calendar entries that exist in the database, based on a set of filtering criteria passed by the caller. The administrator can use this list to update or delete existing calendar entries. It is accessed from the calendar access page.

File	Description
admin_header.htm	This is the header that appears above all admin pages.
admin_headline_access.jsp	This page gives the administrator the choice to add a new headline or to view a filtered list of headlines based on a date range. It is accessed from the main admin page.
admin_headline_maint.jsp	This page lists the headlines that exist in the database, based on a set of filtering criteria passed by the caller. The administrator can use this list to update or delete existing headlines. It is accessed from the headline access page.
admin_login.jsp	This is the main login screen for the administrative interface. This generates the session for the administrator. If a user tries to access any of the admin pages without this session, they are forwarded back to this page.
admin_login_fail.jsp	This page displays if you enter an incorrect username or password on the admin login page.
admin_main.jsp	This is the main admin page. It displays the four-button menu with the options to change your password, maintain the calendar, maintain headlines, and maintain NPRMs. This page appears after you successfully log in to the admin site.
admin_nprm_create_main.jsp	This page displays a form allowing the user to add a new NPRM to the database. It is accessed from the NPRM main page.
admin_nprm_create_validate.jsp	This JSP validates the NPRM submitted from the NPRM creation or edit page. If there are validation problems with the NPRM, it displays them for the user so that they can correct them.
admin_nprm_edit_edit.jsp	This page displays an existing NPRM in a form so that the user can edit and resubmit it. It is accessed from the NPRM editing main page.
admin_nprm_edit_filter.jsp	This page allows the user to choose a set of filtering criteria to use on the NPRM edit list page. It is accessed from the main NPRM page.
admin_nprm_edit_main.jsp	This page displays a list of NPRMs from which the user can pick one to edit or delete. It is accessed from the NPRM filtering page.
admin_nprm_pick.jsp	This is the NPRM main page. It gives the user the choice of whether to create a new NPRM or to maintain an existing NPRM. This page is accessed from the main admin page.
admin_user_change_password.jsp	This is the page that allows admin users to change their password. It is accessed from the main admin page.
admin_user_create.jsp	This is the page that allows the <i>uberuser</i> to create new admin users. Only the <i>uberuser</i> has access to this page.
admin_user_delete.jsp	This is the page that allows the <i>uberuser</i> to delete admin users. Only the <i>uberuser</i> has access to this page.
admin_user_maint.jsp	This is the page that appears when the <i>uberuser</i> logs into the admin site. The <i>uberuser</i> (username: <i>uberuser</i>) is a special user that can only add and delete admin users. The <i>uberuser</i> cannot maintain the headlines, calendar, or NPRMs.

3.3.2 Directory: /build/htdocs/calendar

The **calendar** directory contains the JSPs that implement the SFA Schools Portal calendar. Both the Home Site and Personal Site use this code to display their calendars. The **calendar** directory contains the following files:

File	Description
calendar.jsp	This JSP displays the one-month calendar that appears on the Home Site and Personal Site main pages. It includes the tabs for Deadlines, Events, Training, and NPRMs.
calendar_allItems.jsp	This is the page that displays when you click on the month name in the main calendar. This page lists all calendar entries for a month.

File	Description
calendar_deadlines.jsp	This page lists all the deadline entries for the current month. It is accessed by clicking on the Deadlines tab at the top of the Calendar.
calendar_events.jsp	This page lists all the event entries for the current month. It is accessed by clicking on the Events tab at the top of the Calendar.
calendar_master.htm	This is the default master frameset for the Calendar window
calendar_nprms.jsp	This page lists all the NPRM entries for the current month. It is accessed by clicking on the NPRM tab at the top of the Calendar.
calendar_titlebar.htm	This is the default titlebar for the Calendar window.
calendar_training.jsp	This page lists all the training entries for the current month. It is accessed by clicking on the Training tab at the top of the Calendar.

3.3.3 Directory: /build/htdocs/headlines

The **headlines** directory contains the JSPs that implement the SFA Schools Portal Headlines area. Both the Home Site and Personal Site use this code to display their headlines. The **headlines** directory contains the following files:

File	Description
headlines.jsp	This JSP displays the list of headlines that appears on the Home Site and Personal Site main pages.
headlines_master.htm	This is the default master frameset for the Headlines window.
headlines_titlebar.htm	This is the default titlebar for the Headlines window.
moreHeadlines.jsp	This page lists all of the headlines in the database, organized by date. It is accessed by clicking on the “More Headlines” link in the Headlines titlebar on the Home and Personal sites.

3.3.4 Directory: /build/htdocs/help

The **help** directory contains the HTML files that make up the Help and FAQ pages for the SFA Schools Portal. Both the Home Site and Personal Site use these pages. The **help** directory contains the following files:

File	Description
basic_search_help.htm	This page describes the process for executing a search on the Home Site’s or Personal Site’s search area. It is accessed from the Search Help link in the Search Area, or from the Portal Help main page.
bookmark_help.htm	This page provides help for the Customize Bookmarks page. It is accessed from the Customize Bookmarks page on the Personal Site or from the Portal Help main page.
calendar_help.htm	This page supplies help on using the Calendar on the Home and Personal sites.
login_help.htm	This page provides help for logging into the Personal Site, and includes contact information in case there are problems with the login process. It is accessed from the Portal Help main page
parts_help.htm	This page describes the various parts of the SFA Schools Portal Home and Personal sites. It is accessed from the Portal Help main page.
password_help.htm	Similar to the login help page, this page tells the user what to do in case they have forgotten their password.
portal_faq.htm	This page contains the Portal Frequently Asked Questions (FAQ) document. It can be accessed from the header on the Home and Personal sites.
portal_help.htm	This is the main SFA Schools Portal help page. It can be accessed from the header on the Home and Personal sites.
sfalink_help.htm	This page provides help for the Customize Links page. It is accessed from the Customize Links page on the Personal Site or from the Portal Help main page.

3.3.5 Directory: /build/htdocs/home

The **home** directory contains the pages that implement the SFA Schools Portal Home Site. The Home Site does not require a logon of any kind. These files are not shared between the Home and Personal sites. The **home** directory contains the following files:

File	Description
badLogin.jsp	This page was intended to be displayed if the user's login to the Personal Site failed. However, due to limitations of Viador this page is not used. It is here for future use.
blank.htm	This is an empty HTML file, used as a spacer in the framesets. Any time you see an empty space between frames on the Home Site, it usually contains this file.
calendar_master.htm	This is the frameset used on the Home Site to contain the Calendar area.
calendar_titlebar.htm	This is the titlebar used on the Home Site Calendar area
construction.jsp	The "This Page Under Construction" page. When building Home Site, it was referenced whenever a page did not yet exist. It is not referenced anywhere now but is kept around for future needs.
error.jsp	This page displays when an error has occurred in a JSP or Servlet executed from the Home Site.
frame_border.htm	This contains the vertical thin blue line that is used to make up the left and right borders of each area.
frame_bottom.htm	This contains the horizontal thin blue line that is used to make up the bottom border of each area.
header.htm	This is the header that appears in the top frame of the Home Site. It contains the button bar and the "get browsers" link.
headlines_master.htm	This is the frameset used on the Home Site to contain the Headlines area.
headlines_titlebar.htm	This is the titlebar used on the Home Site Headlines area.
index.htm	This is the master frameset for the entire Home Site. It consists of two frames: the header frame, which contains header.htm, and a main frame, which contains master_frameset.htm. Browsers that do not support frames that view this page are presented with a list of choices of areas rather than a graphical representation.
master_frameset.htm	This is the master frameset for the main area of the Home Site. This contains the Calendar, Headlines, Search, SFA Links, and My SFA framesets. It is contained within the Home Site's frameset as specified in index.htm.
mysfa.htm	This contains the contents of the My SFA area; namely, the user name and password field the user fills out to log into the Personal Site. This information is then submitted to Viador when the user presses the "Go" button.
mysfa_customize.htm	This is the page that is accessed when the user clicks on the "Customize Your Links" link in the My SFA area.
mysfa_master.htm	This is the master frameset for the My SFA area in the Home Site.
mysfa_titlebar.htm	This is the titlebar for the My SFA area in the Home Site.
privacy.htm	This is the privacy statement page accessible from the My SFA area of the Home Site.
search_master.htm	This is the master frameset for the Search area in the Home Site. It references the basic search interface located in the HTML file /build/htdocs/search/search1.htm
search_titlebar.htm	This is the titlebar for the Search area in the Home Site.
sfalinks.htm	This page contains the contents of the SFA Links area of the Home Site. It contains URLs organized by category for all of the required links to other SFA sites.
sfalinks_master.htm	This is the master frameset for the SFA Links area in the Home Site.
sfalinks_titlebar.htm	This is the titlebar for the SFA Links area in the Home Site.

File	Description
signupnow.htm	This is the page accessed when the user clicks on the “Sign Up Now” link in the My SFA area on the Home Site. It contains several fields the user must fill out to receive an account to get to the Personal Site.
signupnow_failed.jsp	This page is displayed if the user entered incorrect or invalid information in the Sign Up Now page. It also informs the user of any erroneous information they entered and provides them an opportunity to correct it.
signupnow_passed.jsp	This page displays when the user successfully creates an account using the Sign Up Now page. It displays their system-created unique user name.

3.3.6 Directory: /build/htdocs/images

The **images** directory contains all the images for the SFA Schools Portal. These images are used in many places throughout the Home Site, the Personal Site, and the Admin pages. They are not itemized here; rather, if you wish to view an image, go to the **images** directory and launch a graphics viewer to see the image.

3.3.7 Directory: /build/htdocs/personal

The **home** directory contains the pages that implement the SFA Schools Portal Home Site. The Home Site does not require a logon of any kind. These files are not shared between the Home and Personal sites. The **home** directory contains the following files:

File	Description
change_password.htm	This page allows a logged-in user to change their password for the Personal Site. This is accessed from the Change Password button in the Customize SFA area on the Personal Site.
frame_border.htm	This contains the vertical thin blue line that is used to make up the left and right borders of each area.
frame_bottom.htm	This contains the horizontal thin blue line that is used to make up the bottom border of each area.
index.htm	This is the master frameset for the entire Personal Site. It consists of two frames: the header frame, which contains <code>personal_header.htm</code> , and a main frame, which contains <code>master_frameset.htm</code> . Browsers that do not support frames that view this page are presented with a list of choices of areas rather than a graphical representation.
master_frameset.htm	This is the master frameset for the main area of the Personal Site. This contains the Calendar, Headlines, Search, SFA Links, and Customize SFA framesets. It is contained within the Personal Site’s frameset as specified in <code>index.htm</code> .
personal_calendar_master.htm	This is the frameset used on the Personal Site to contain the Calendar area.
personal_calendar_titlebar.htm	This is the titlebar used on the Personal Site Calendar area
personal_customize.htm	This page is the content of the Customize SFA area on the Personal Site. It contains buttons allowing the user to change their password, customize their bookmarks, or customize their SFA links.
personal_customize_bookmarks.jsp	This page contains the forms needed for a user to add, update, and delete their personal bookmarks, which appear at the bottom of the SFA Links window. This page is accessed from the Customize SFA area’s Customize Bookmarks button.
personal_customize_bookmarks_prep.jsp	This page extracts the user name from the session object and forwards it as a parameter to the <code>personal_customize_bookmarks.jsp</code> page.
personal_customize_master.htm	This is the master frameset for the Customize SFA area on the

File	Description
	Personal Site.
personal_customize_sfalinks.jsp	This page contains the forms needed for a user hide or show individual SFA links in the SFA Links window. This page is accessed from the Customize SFA area's Customize Links button.
personal_customize_sfalinks_prep.jsp	This page extracts the user name from the session object and forwards it as a parameter to the <code>personal_customize_sfalinks.jsp</code> page.
personal_customize_titlebar.htm	This is the titlebar for the Customize SFA area on the Personal Site.
personal_header.htm	This is the header that appears in the top frame of the Personal Site. It contains the button bar and the "get browsers" link.
personal_headlines_master.htm	This is the frameset used on the Personal Site to contain the Headlines area.
personal_headlines_titlebar.htm	This is the titlebar used on the Personal Site Headlines area.
personal_search_master.htm	This is the master frameset for the Search area in the Personal Site. It references the basic search interface located in the HTML file <code>/build/htdocs/search/search1.htm</code>
personal_search_titlebar.htm	This is the titlebar for the Search area in the Personal Site.
personal_sfalinks.jsp	This page contains the contents of the SFA Links area of the Personal Site. It contains URLs organized by category for all of the required links to other SFA sites as retrieved from the database based on the user's customization preferences, which are set up from the Customize SFA area's Customize Links button.
personal_sfalinks_master.htm	This is the master frameset for the SFA Links area in the Personal Site.
personal_sfalinks_prep.htm	This page extracts the user name from the session and forwards it to the <code>personal_sfalinks.jsp</code> page
personal_sfalinks_titlebar.htm	This is the titlebar for the SFA Links area in the Personal Site.

3.3.8 Directory: `/build/htdocs/search`

The **search** directory contains the files that implement the SFA Schools Portal integrated search area. Both the Home Site and Personal Site use this code to display their search area. Not all files in this directory (and its subdirectories) are actively used. Some files are included solely for completeness, error diagnostics, and/or CGI template set conformity. The code for the Advanced Search pages is also here. The **search** directory contains the following files:

File	Description
<code>index.html</code>	This file Serves as the frameset holder for the navigation page and the Search query CGI.
<code>main.tmpl</code>	A redirection URL template used for proper functioning of the CGI using <code>index.html</code> .
<code>search.jsp</code>	This is a proxy page between the basic search page <code>search1.htm</code> and the frameset that needs to be generated for a navigation page and the results page.
<code>search_help.htm</code>	The help page assigned for describing the key elements of the SFA Search.
<code>search1.htm</code>	Contains the search content listed on the home page. This also houses the JavaScript used for form submission, database selection, and validation. When changing repositories in Autonomy this file may need to be updated.
<code>searchHeader.htm</code>	A search selection page that allows the user to choose between regular and advanced search ability.
<code>sfa.css</code>	Cascading Style Sheet for search pages.

3.3.8.1 Directory: /build/htdocs/search/docmanagment

The **docmanagement** directory contains the templates that will be encountered if Autonomy configurations change to allow for publishing of material. These are currently unsupported options, and generally report an error if accessed.

File	Description
databaseselect.tpl	An unused template to specify a particular database name.
docsubmit.tpl	Error page reporting that this option is not available or supported.
submitsuccess.tpl	Error page reporting that this option is not available or supported.
tmplselect.tpl	The file used to specify a particular set of Autonomy templates. This is not used, as a supplementary set is used in place of it.

3.3.8.2 Directory: /build/htdocs/search/query

The **query** directory contains the template files used by Autonomy to generate the query screen for the Advanced Search page. It contains the following files:

File	Description
database.tpl	A template for listing all databases with checkboxes for query form input.
date.tpl	A template, that if included within the Advanced Search CGI calls, will allow for the extra capability of specifying a date range attribute. Inclusion of this capability <i>will</i> require modification to the search1.htm file.
fields.tpl	The tag that specifies custom fields. Not used in this release.
query.tpl	The main query template used for Advanced Search. If repositories are changed on the underlying Autonomy system, this file may need to be changed. This is also where to change settings such as results shown per page, doing a fuzzy search, etc.

3.3.8.3 Directory: /build/htdocs/search/results

The **results** directory contains the template files used by Autonomy to generate the search results pages. There are many possible pages that can be generated by running a search. The **results** directory contains the following files:

File	Description
contents.tpl	Error page reporting that this option is not available or supported.
longresult.tpl	An unused page that can be used instead of the current shortresult.tpl to display a longer summary from the CGI results.
nocontents.tpl	Error page reporting that this option is not available or supported.
noneselected.tpl	Reporting page to let the user know that no valid input attributes were passed into the CGI.
noresults.tpl	Reporting page to let the user know that there was no document that matched the given input criteria.
noserver.tpl	An error page that reports connectivity loss followed by a notification message to contact the administrator.
nosuggests.tpl	This file lets the user know that no other documents could be recommended based on the original document given.
nosummary.tpl	Error page to report failure to find a summary for the given document.
results.tpl	This template formats the results to be displayed.
shortresult.tpl	The currently used result template to give the short 3 line summaries displayed.
suggestframe.tpl	A frameset holder for Autonomy contents and suggestions.
suggestonurlnourl.tpl	Error page upon failing to retrieve content associated with a results URL.
suggestresult.tpl	An unused page that will allow for accessing the content directly should this be included in the Autonomy configuration.
summary.tpl	A summary submission template.

3.4 Directory: /build/logs

The **logs** directory contains the SFA Schools Portal logfile. The logfile contains timestamped error messages generated by the servlets and Java Server Pages that make up the application. This log is the first place you should look if there is an error occurring.

File	Description
SFAPortal.log	The log file for SFA Schools Portal. The path and name of this file are specified in the <code>/build/src/com/edgetech/sfa/SfaParameters.java</code> configuration file.

3.5 Directory: /build/scripts

The **scripts** directory contains the script files used to create, populate, and destroy the Oracle database tables associated with SFA Schools Portal. A complete description of the data model used can be found in the *SFA Portal Database Design* document. The **scripts** directory contains the following files:

File	Description
create_sfa_db.sql	This file creates the tables, key relationships, and sequences needed to operate the SFA Schools Portal. Viador must have been installed before this script can be run, since the script relies on the existence of the Viador RPUSER table.
populate_sfa_db.sql	This script populates the SFA Schools Portal database with initial data. The <code>create_sfa_db.sql</code> script must have been executed before this. Do not run this script on a “dirty” database; i.e. one that already has data in the SFA tables.
remove_sfa_db.sql	This drops all the tables and sequences created by the <code>create_sfa_db.sql</code> script. This will remove all data in the SFA Schools Portal database.

3.6 Directory: /build/src

The **src** directory is the root of all the Java source code in the SFA Schools Portal. This directory contains all the servlets used by the SFA Schools Portal. Subdirectories of this contain utility classes used by the servlets and JSPs in the rest of the Portal. The **src** directory contains the following files:

File	Description
AdminCalendarMaintServlet.java	This servlet provides an interface to add, modify, and delete Calendar entries from the database. It is used by the Admin pages to perform all calendar administration.
AdminHeadlineMaintServlet.java	This servlet provides an interface to add, modify, and delete Headline entries from the database. It is used by the Admin pages to perform all headline administration.
AdminLoginServlet.java	This servlet is responsible for authenticating admin users when using the Admin pages. It creates a session for the admin user and populates it with the data necessary for authentication.
AdminUserMaintServlet.java	This servlet provides the interface to add and remove users from the Admin Users database. It is used by the Add and Delete Users pages in the Admin Pages.
BookmarkMaintServlet.java	This servlet is the interface used to add, modify, and remove personal bookmarks from the database. It is used by the Customize Bookmarks page on the Personal Site.
Makefile	Executing <code>/usr/ccs/bin/make</code> on this file will build all of the code in the SFA Schools Portal from this directory onward.
SfaLinkMaintServlet.java	This servlet is the interface used to store a user’s preferences for showing and hiding SFA Links in the database. It is used by the Customize SFA Links page on the Personal Site.
UserCreationServlet.java	This servlet is used as the interface to create new SFA Portal users. It is

File	Description
	accessed from the Sign Up Now screen. It accesses the Viador API to create a new Viador user, which is used to authenticate when signing on to the Personal Site.

3.6.1 Directory: /build/src/com

This is the top level package hierarchy for the Java utility classed developed by Exolve/Edge. It contains the following files:

File	Description
Makefile	Executing <code>/usr/ccs/bin/make</code> on this file will build all of the code in the SFA Schools Portal from this directory onward.

3.6.1.1 Directory: /build/src/com/edgetech

This is the middle level package hierarchy for the Java utility classed developed by Exolve/Edge. It contains the following files:

File	Description
Makefile	Executing <code>/usr/ccs/bin/make</code> on this file will build all of the code in the SFA Schools Portal from this directory onward.

3.6.1.1.1 Directory: /build/src/com/edgetech/sfa

This directory contains the utility classes developed for the SFA Schools Portal. These classes are in the **sfa** directory rather than the **util** directory because they have little or no reuse potential on other projects, since they are very specific to SFA. The files in this directory are:

File	Description
AdminCreationException.java	This is the exception thrown when there is a problem in the admin pages.
AdminUser.java	This class implements an admin user. It mirrors the table structure of the ADMIN_USERS table in the data model.
BookmarkUtilities.java	This class provides utilities allowing the programmer to retrieve various lists of user's bookmarks from the database. It is used heavily by <code>/build/htdocs/personal/personal_customize_bookmarks.jsp</code>
CalendarCategories.java	This class implements a Calendar Category. It mirrors the structure of the CALENDAR_CATEGORIES table in the data model.
CalendarEntry.java	This class implements a Calendar Entry. It mirrors the structure of the CALENDAR table in the data model.
CalendarUtilities.java	This class provides utilities allowing the programmer to retrieve various lists of Calendar Entries or Calendar Categories from the database. It is used mainly by the files in <code>/build/htdocs/calendar</code> and by the <code>AdminCalendarMaintServlet</code>
Headline.java	This class implements a Headline. It mirrors the structure of the HEADLINES table in the data model.
HeadlineCategory.java	This class implements a Headline Category. It mirrors the structure of the HEADLINE_CATEGORIES table in the data model.
HeadlineUtilities.java	This class provides utilities allowing the programmer to retrieve various lists of Headlines or Headline Categories from the database. It is used mainly by the files in <code>/build/htdocs/headlines</code> and by the <code>AdminHeadlineMaintServlet</code>
Makefile	Executing <code>/usr/ccs/bin/make</code> on this file will build all of the code in the SFA Schools Portal from this directory onward.
Region.java	This file implements a Region. It mirrors the structure of the REGIONS table in the database.

File	Description
SfaBookmark.java	This class implements a user-defined Bookmark. It mirrors the structure of the USER_BOOKMARKS table in the database.
SfaException.java	This is the exception thrown by many of the SFA utility classes.
SfaLink.java	This class implements a user-defined SFA Link, and whether it is hidden or shown. It mirrors the structure of the USER_SFALINKS table in the database.
SfaParameters.java	This is the configuration file used by almost all SFA java and JSP files. It contains all the parameters necessary to determine the installed machine name, connect to the Oracle database, connect to Viador, write to a log file, or locate the root of the HTTP directory.
SfaPreferences.java	This file was created to allow filtering of calendar and headline items based on user preferences. It is not used in this version but is being kept for future use.
SfaUser.java	This class implements an SFA user. It mirrors the structure of the SFA_USERS table in the database.

3.6.1.1.2 Directory: /build/src/com/edgetech/util

The **util** package contains utility files that can be reused outside of SFA Schools Portal. Logging utilities and the classes necessary to implement and render the user calendar on the Home and Personal sites are collected here. The **util** directory contains the following files:

File	Description
BaseModel.java	The root class from which all models for custom calendar rendering should originate from.
CalendarUtilities.java	This file is no longer used and will be removed in later versions.
LogUtilities.java	This file is no longer used and will be removed in later versions.
Makefile	Executing /usr/ccs/bin/make on this file will build all of the code in the SFA Schools Portal from this directory onward.
SFACalendar.java	A rendering class used in conjunction with TableModel.java. May be removed in later versions.
StaticLogUtilities.java	This class contains utilities to write messages and exceptions to the SFA Schools Portal log file. This is a static class, so no instantiation has to be done to use its methods.
TableModel.java	The lone implementation of BaseModel.java. May be removed in later versions.

3.6.2 Directory: /build/src/java

This directory is the top-level package for functionality imported from a later release of Java (1.2) that was not present in SFA Schools Portal. This directory contains the following files:

File	Description
Makefile	Executing /usr/ccs/bin/make on this file will build all of the code in the SFA Schools Portal from this directory onward.

3.6.2.1 Directory: /build/src/java/net

This directory contains files necessary to decode URL-encoded strings. This functionality is not present in the version of Java deployed for SFA Schools Portal, so it was necessary to add it here. This directory contains the following files:

File	Description
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File	Description
Makefile	Executing <code>/usr/ccs/bin/make</code> on this file will build all of the code in the SFA Schools Portal from this directory onward.
URLDecoder.java	Provides a method to decode strings encoded by <code>java.net.URLEncoder</code> . This file is copied from Java 1.2, since it is not present in Java 1.1.8 which is used by Viador.